## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

(Currently Amended) A rotary concrete mixing drum comprising:

a first helical wall element and a second helical wall element joined to the first helical wall element along a helical seam, the first helical wall element and the second helical wall element forming a substantially continuous common wall having an interior surface circumferentially extending about a longitudinal axis to form an interior of the drum;

an the interior surface at least partially provided by a polymer infused with a slip agent; wherein the polymer includes polyurethane, and the slip agent is a polytetraflourethylene powder configured to be held firmly in place so as not to substantially migrate within the polymer and having a weight percentage of at least 2% and no greater than 5% of the infused polymer along the surface, or a polyalpha olefin fluid having a highly branched structure configured so as not to significantly migrate within the polymer and having a weight percentage of at least 2% and no greater than 5% of the infused polymer along the surface.

- (Canceled).
- (Original) The drum of claim 1 wherein the slip agent has a surface energy less than the surface tension of a Portland Cement low slump concrete.
- (Original) The drum of claim 1 wherein the slip agent has a surface energy of less about 20 dynes per centimeter.
  - 5-16. (Canceled).
- (Previously Presented) The drum of claim 1 including: an inner layer including
  the infused polymer along the inner surface; and an outer layer providing an exterior surface of
  the drum
  - 18. (Original) The drum of claim 17 wherein the outer layer is non-metallic.

- 19. (Original) The drum of claim 18 wherein the outer layer includes fiberglass.
- 20. (Original) The drum of claim 19 wherein the outer layer includes: fiberglass windings about the inner layer; a first layer of chopper fiberglass over the windings, the first layer having a ground surface with pores; and a second layer of chopper fiberglass over the first layer and across the pores.
- (Original) The drum of claim 20 wherein the first layer has a first thickness and wherein the second layer has a second lesser thickness.
- (Original) The drum of claim 20 wherein the first layer has a thickness of about
   0.25 inch and wherein the second layer has a thickness of about 0.05 inch.
- (Original) The drum of claim 20 wherein the second layer has a thickness of about 0.1 inch.
- (Original) The drum of claim 20 wherein the ground surface has a smoothness from being ground by a 16 grit abrasive.
- 25. (Original) The drum of claim 17 wherein the outer layer includes: fiberglass windings about the inner layers; a sacrificial layer over the windings, wherein the sacrificial layer has a surface having pores; and a top layer over the sacrificial layer and across the pores.
  - 26. (Original) The drum of claim 17 wherein the outer layer is metallic.
- (Original) The drum of claim 1 wherein the impregnated polymer has a tensile strength of at least 15 MPa.
- 28. (Original) The drum of claim 1 wherein the impregnated polymer has a Modulus 300% of at least 12 MPa.
- 29. (Original) The drum of claim 1 wherein the impregnated polymer has a tear strength of at least 68 kN/m.

- (Original) The drum of claim 1 including inwardly extending projections configured to move material as the drum is rotated, wherein the projections partially provide the interior surface of the drum
- 31. (Previously Presented) The drum of claim 30, wherein the projections have an exterior surface including the infused polymer.
- (Previously Presented) The drum of claim 31, wherein at least a portion of one of the projections has a thickness completely formed from the infused polymer.
- (Withdrawn) A fin for use in a concrete mixing drum, the fin comprising: an
  exterior surface at least partially provided by a polymer impregnated with a slip agent.
- (Previously Presented) The drum of claim 1 having a drum barrel, the barrel comprising: an interior surface at least partially provided by the infused polymer.
- 35. (Withdrawn) A method for forming a concrete mixing drum, the method comprising: impregnating a polymer with a slip agent; and forming an interior surface of a concrete mixing drum with the impregnated polymer.
- (Withdrawn) The method of claim 35 including molding the impregnated polymer.
- (Withdrawn) The method of claim 35 including spraying the impregnated polymer.
- (Withdrawn) The method of claim 35 wherein the slip agent includes polytetraflourethylene.
- (Withdrawn) The method of claim 37 wherein impregnating includes mixing polytetraflourethylene powder with a polyol.
- (Withdrawn) The method of claim 39 wherein mixing comprises high sheer mixing.

- (Withdrawn) The method of claim 40 wherein mixing is performed using a
   Cowles blade mixer
- 42. (Withdrawn) The method of claim 35 including: molding the impregnated polymer into a first section; forming an interior of the drum with the section; and applying fiberglass to an exterior of the first section.
- 43. (Withdrawn) The method of claim 42 including: molding the impregnated polymer into a second section; coupling the second section to the first section to form the interior of the drum; and applying fiberglass windings to arm exterior of the second section.
- 44. (Withdrawn) The method of claim 43 wherein the first section and the second section are helical and wherein coupling includes screwing the first section and the second section together.
- 45. (Withdrawn) The method of claim 43 including: applying a sacrificial layer of fiberglass over the windings; grinding the sacrificial layer to form a ground exterior surface having pores; and applying a top layer of fiberglass over the ground exterior surface.
- 46. (Withdrawn) A method for finishing an exterior of a concrete mixing drum having a preliminary exterior surface, the method comprising: applying a sacrificial layer of fiberglass over the preliminary exterior surface; grinding the sacrificial layer to form a ground surface having pores; and applying a top layer on the ground surface over the pores.
- 47. (Withdrawn) The method of claim 46 wherein the sacrificial layer is ground using an abrasive having at least a 16 grit.
  - 48. (Withdrawn) The method of claim 46 wherein the top layer is chopper fiberglass.
- 49. (Withdrawn) The method of claim 48 wherein the top layer has a thickness of less than 0.50 inches
- 50. (Withdrawn) A concrete mixing truck comprising: a chassis; a cab supported by the chassis; a drum supported by the chassis and extending over the cab, the drum having the first

section extending in an archimedial spiral along an axial center line of the drum; and a second section extending in an archimedial spiral along the axial center line of the drum, wherein the first section and the second section extend adjacent to one another.

- 51. (Withdrawn) A concrete mixing drum comprising: a barrel having an inner surface and an outer surface; and at least one projection spirally extending along the inner surface, wherein the inner surface is provided by a polymer and wherein the outer surface has a convex portion and a concave portion.
- (Withdrawn) The drum of claim 51 wherein the concave portion is located along an axial midsection of the drum.
- 53. (Withdrawn) The drum of claim 51 wherein the convex portion and the concave portion are integrally formed as a single unitary body.
- (Withdrawn) The drum of claim 53 wherein the convex portion and the concave portion are formed from fiberglass windings.
- 55. (Withdrawn) The drum of claim 51 wherein the inner surface is at least partially provided by a first archimedial section.
- 56. (Withdrawn) The drum of claim 51 wherein the projections are integrally formed as a single unitary body with the inner surface of the barrel.
- 57. (Withdrawn) The drum of claim 55 wherein the inner surface is provided by a second archimedial section screwed about the first section, wherein the first section and the second section each have an exterior mid-portion concave surface.
  - 58. (Canceled).